CEB:HLS
VII-3

Letter
Circular
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DEPARTMENT OF COMMERCE

BUREAU OF STANDARDS

WASHINGTON.

(August 1, 1923)

Bureau of Standards
formation desk
Washington

TESTS ON ASBESTOS & RUBBER SHEET PACKING

This material was submitted to the Bureau for the purpose of obtaining data which would be of value in considering the specifications for this type packing.

The enclosed photostat shows the results of the comparative tests on various makes of this packing. Tests were also made after the material had been aged in an electric oven at 70°C for 7 days and 14 days to determine whether or not this kind of test would be an indication of deterioration due to aging, as it is in rubber goods. After 14 days a marked difference in the tensile strength is noticed in most every case.

The compression tests were made with a ring die as shown on the blue prints. The area of the ring in contact with the packing is one square inch and the compression takes place between the ring and a flat steel surface.

The tensile strength tests were made using test pieces cut with a 1/2" die, 2" gage length, and with a speed of separation of the grip of 12 inches per minute.

The packing submitted by you may be identified by the following Lab. No.

DEPARTMENT OF CHEMISTRY

Notes on Chemistry

(Autumn Term)

TESTS OF ADHESIVES & RUBBER BASED COATINGS

This material was submitted by the Author for the purpose of obtaining data which would be of value in controlling its specifications for this type coating.

The material consisted chiefly of the properties of the adhesive on various metals of thin gauge. Tests were also made after the material had been kept in an atmosphere over 90% for 7 days and in both the saturated chamber or wet film test it was noted the deterioration was to begin, as it is in rubber goods. After 14 days a marked difference in the tensile strength is noticed in most every case.

The compression tests were made with a ring 6½ in the blue print. The area of this ring is therefore 1½ the area of the actual surface.

The tensile strength tests were made using test pieces with a 1½" dia of thin gauge, and with a speed of movement of one inch of in inches per minute.

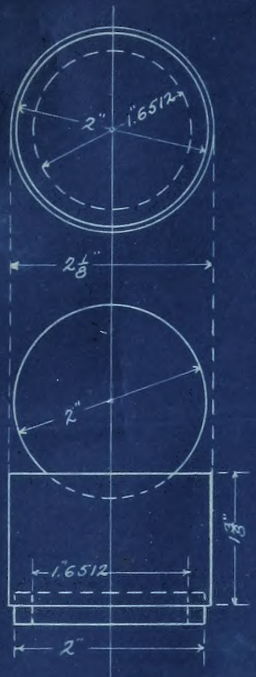
The results obtained by ten may be tabulated by the following Nos. &c.

2919	Keasby & Mattison	(Rhinoceros)	J.M. Weaver, Ambler, Pa.
2919 A.	"	(Graphited)	

2977	Dominion A.& R. Co.	(Sovereign)	New York
2978	" " " "	(Darcoid)	" "
2979	" " " "	(Flangetite)	" "

3131	General A.& R. Co.	(Pyroid-Formula 4)	Mr. S.L. Jenkins
3132	" " " "	(" " 8)	Charleston, S.C.

3239	Raybestos Co.	#103	Bridgeport,	Conn.
3240	" "	#503	"	"
3241	" "	#1503	"	"



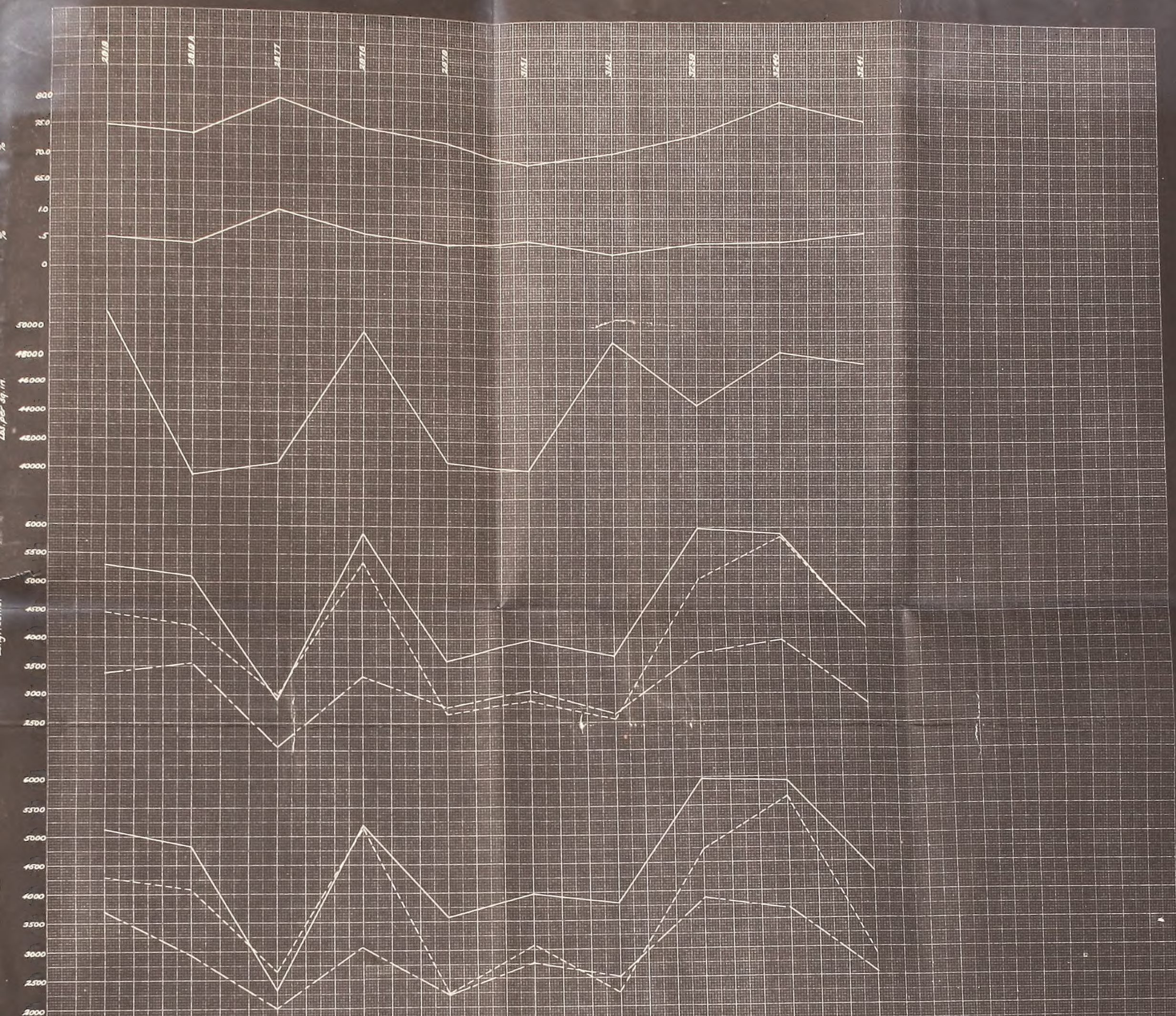
For compression test of rubber and asbestos sheet packing

To be made of machine steel

Scale - ½ size

Bureau of Standards

Compressed Asbestos Sheet Packing



BUREAU OF STANDARDS
July 26, 1923.